

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO.
FOR
RANCHO MURIETA COMMUNITY SERVICES DISTRICT
VAN VLECK RANCH RECYCLED WATER REUSE AREAS
SACRAMENTO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring reclaimed water and reclaimed water reuse areas. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each sample shall be recorded on the sample chain of custody form.

Field test instruments (such as those used to test pH and electrical conductivity) may be used provided that:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of this MRP.

TERTIARY EFFLUENT MONITORING

RMCSO shall continue to monitor tertiary effluent in accordance with Revised MRP No. 5-01-24. For the purposes of this MRP, tertiary effluent monitoring shall include, at a minimum, the following:

| <u>Constituent</u> | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|---------------------------------------|--------------|-----------------------|---------------------------|----------------------------|
| Turbidity ¹ | NTU | Continuous | Daily | Monthly ¹ |
| Total Chlorine Residual | mg/L | Continuous | Daily | Monthly |
| Total Coliform Organisms ² | MPN/100 ml | Grab | Daily | Monthly |
| pH | pH units | Grab | Weekly | Monthly |
| Total Dissolved Solids | mg/L | Grab | Weekly | Monthly |
| Sodium | mg/L | Grab | Weekly | Monthly |
| Chloride | mg/L | Grab | Weekly | Monthly |
| Nitrate nitrogen | mg/L | Grab | Monthly | Monthly |

| <u>Constituent</u> | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|-------------------------|--------------|-----------------------|---------------------------|----------------------------|
| Total Kjeldahl nitrogen | mg/L | Grab | Monthly | Monthly |

¹ For each day, report the minimum and maximum recorded turbidity, the total amount of time that turbidity exceeded 5 NTU, and the total amount of time that turbidity exceeded 10 NTU.

² Using a minimum of 15 tubes or three dilutions.

REUSE AREA MONITORING

The Discharger shall monitor reclamation activities at the reuse areas in accordance with the following. Reuse area monitoring shall be performed daily and the results shall be included in the monthly monitoring report. Erosion, ground saturation, tailwater runoff, and nuisance conditions shall be noted in the report. Reclaimed water shall also be monitored to determine loading rates at the reuse areas.

| <u>Parameter</u> | <u>Units</u> | <u>Type of Sample</u> | <u>Monitoring Frequency</u> | <u>Reporting Frequency</u> |
|---|---|------------------------|-----------------------------|----------------------------|
| Flow from WWTF to each reuse area ¹ | gpd and inches/day | Flow Meter Observation | Daily | Monthly |
| Rainfall | inches | Measurement | Daily | Monthly |
| Net Acreage Receiving Recycled Water ¹ | acres | Calculated | Daily | Monthly |
| Nitrogen Loading Rate ² | lbs/ac/month and cumulative lbs/ac/year | Calculated | Monthly | Monthly |
| Dissolved Solids Loading Rate | lbs/ac/month and cumulative lbs/ac/year | Calculated | Monthly | Monthly |

¹ Specific reuse areas shall be identified.

² Including contributions from applied fertilizer.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable.

The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Regional Water Board.

A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Water Board on the **1st day of the second month following sampling** (i.e. the January Report is due by 1 March). At a minimum, the monthly monitoring reports shall include:

1. Results of tertiary effluent monitoring and reuse area monitoring.
2. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements. Data shall be presented in tabular format.
3. If requested by staff, copies of laboratory analytical report(s).

B. Annual Report

An Annual Report shall be prepared after completion of the short-term recycling project in October 2007. The Annual Report shall include all monitoring data required in the monthly schedule. The Annual Report shall be submitted to the Regional Water Board by **1 February 2008**. In addition to the data normally presented, the Annual Report shall include the following:

1. Tabular and graphical summaries of all data collected during the year.
2. An evaluation of the performance of the WWTF which demonstrates the facility's ability to consistently meet treatment standards for recycled water use as specified in Title 22, Division 4, CCR (Section 60301, et seq.).
3. An evaluation of the reuse areas and discussion of any structural or operational improvements needed for future use of these areas.
4. A discussion of compliance and the corrective action taken.
5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agents, as described in the Standard Provisions General Reporting Requirements Section B.3.

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The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)

ALO:7/16/07